Chemical Properties of the Soils

* Lowndes County, Alabama

(Absence of an entry indicates that data were not estimated.)

2B: Annemaine	Map symbol and soil name	İ	Cation exchange capacity	cation	reaction		Gypsum 	Salinity	Sodium adsorp- tion ratio
Annemaine		 In	 meg/100 g	 meq/100 g	 pH	 Pct	Pct	mmhos/cm	_
Annemaine	_	l	1	I	1		I		
9-16					4 5 6 5	! !	I	0	
16-37	Annemaine		1	1			'		
37-49							ı		
## Annemaine		•						-	
Annemaine							j	0	i
9-16	2B:	 	 	 	 		 		
16-37	Annemaine		1					0	
37-49		•						-	
B: Brantley							'	-	
## Description of the image of							,	-	
Brantley		49-90 		 	4.5-5.5			0	
G-35							, i	0	
35-52	Brantiey						- 1		
							- 1	-	
Brantley							- 1	-	
Brantley	7D:	 		[[[[
6-35		0-6	5.0-15	· 	4.5-6.5	i o i	0 i	0	i o
52-72 5.0-25 4.5-5.5 0 0 0 0 0 0 0 0 0	2	6-35	i	10-35	4.5-6.0	i 0 i	0 i	0	i O
Da:		35-52	i			0 1	0 [0	0
Izagora		52-72		5.0-25	4.5-5.5	0 1	0	0	0
11-46 3.6-5.5 0 46-91 3.6-5.5 0 0	9A:	 	 	 	 		 		
46-91 3.6-5.5 0	Izagora	0-11			3.6-6.0			0	
10: Riverview		11-46			3.6-5.5			0	
Riverview		46-91 		 	3.6-5.5			0	
6-39									
39-70 2.0-6.0 4.5-6.0 0 0 0 0 0 0 0 0 0	Riverview						- ,		
11:			1				- '		
Mantachie		39-70		2.0-0.0	4.5-6.0		0 I	O	1
11-61 4.5-5.5 0 Bibb 0-12 4.0-7.0 3.6-5.5 0 0 0 0 0 12-60 4.0-10 3.6-5.5 0 0 0 0 0 Iuka 0-13 5.1-6.0 0 13-22 4.5-5.5 0 12-60 4.5-5.5 0 12-60 4.5-5.5 0 13-22 4.5-5.5 0 12: Houlka 0-8 4.5-5.5 0			1	I			ļ	0	1
Bibb	Mantachie		1						
Tuka			İ	İ	İ	i i	i	•	
Iuka 0-13 5.1-6.0 0 13-22 4.5-5.5 0 22-60 4.5-5.5 0 12: Houlka 0-8 4.5-5.5 0	Bibb		1				- 1	-	
13-22 4.5-5.5 0 22-60 4.5-5.5 0 1.5 1.		12-60 		4.0-10	3.6-5.5	0	0	0	0
22-60 4.5-5.5 0	Iuka			1					·
				1			ļ		
Houlka 0-8 4.5-5.5 0		22-60 			4.5-5.5			0	
			į	i I	 4 E E E	į į	į	^	į
8-60 4.5-5.5 0	Houlka		1	1			!		
		8-60 			4.5-5.5			U	
5:			İ		 4 E E E	į į	į	^	į
0110	UIId		1	1			ı		

Map symbol and soil name	Depth	capacity	Effective cation exchange capacity	reaction		Gypsum 	Salinity	Sodium adsorp- tion ratio
	In In	<u>meq/100 g</u>	 meq/100 g	 pH	Pct	Pct	mmhos/cm	
16: Pits	0-60			 			0	
17B: Troup	 - 0-53 53-80	 	 	 4.5-6.0 4.5-5.5		 	0 0	
17C: Troup	 0-53 53-80	 	 	4.5-6.0 4.5-5.5	 	 	0 0	
18E: Luverne	0-7 7-30 30-40 40-80	 	 	3.6-5.5 3.6-5.5 3.6-5.5 3.6-5.5	i	 	0 0 0	
Saffell	0-8 8-14 14-47 47-72	i		4.5-5.5 4.5-5.5 4.5-5.5 4.5-5.5	0	0 0 0 0	0 0 0	
21A: Bassfield	 - 0-7 7-42 42-80	 	 	4.5-5.5 4.5-5.5 4.5-5.5		 	0 0 0	
24A: Heidel	0-11 11-46 46-80		 	4.5-5.5 4.5-5.5 4.5-5.5	i	 	0 0 0	
24B: Heidel	0-11 11-46 46-80		 	4.5-5.5 4.5-5.5 4.5-5.5		 	0 0 0	
28: Bigbee	0-17	 	 	4.5-6.0		 	0 0	
29: Urbo	 - 0-9 9-71	 	 	 4.5-5.5 4.5-5.5		 	0 0	
30A: Lucedale	 - 0-8 8-60	 	 	5.1-6.5 4.5-5.5	 	 	0 0	
30B: Lucedale	 - 0-8 8-60	 	 	 5.1-6.5 4.5-5.5	 	 	0 0	
30C: Smithdale	0-11 11-38 38-80		 	4.5-5.5 4.5-5.5 4.5-5.5		 	0 0 0	
30D: Smithdale	0-11 11-38 38-80		 	4.5-5.5 4.5-5.5 4.5-5.5	 	 	0 0 0	

Map symbol and soil name	Depth 			reaction	Calcium carbon- ate		Salinity	Sodium adsorp- tion ratio
	 In	 meq/100 g	 meq/100 g	 pH	 Pct	Pct	mmhos/cm	_
31A:		[1]	_	!
Bama	0-14			4.5-6.0			0	
	14-41 41-74			4.5-5.5 4.5-5.5			0	
	41-/4		1	1 4.5-5.5			O	
31B:	<u> </u>	İ	i	i	i i	i		i
Bama	0-14			4.5-6.0			0	
	14-41			4.5-5.5			0	
	41-74			4.5-5.5			0	
34A:		1	1	I I				l I
Minter	·I 0-5			4.5-5.5	0 1	0 1	0	1 0
11111661	5-72			4.5-5.5	0 1	0 1	0	0
		İ	i	İ	i i	i		i
35A:			I	I				1
Cahaba				4.5-6.0			0	
	9-53			4.5-6.0			0	
	53-80			4.5-6.0			0	
35B:		İ	i	! 				
Cahaba	0-9		i	4.5-6.0	i i		0	i
	9-53			4.5-6.0	i i		0	
	53-80			4.5-6.0			0	
		1	I	1				1
36A: Mcqueen	1 0 0						0	
Mcqueen	0-8 8-34			3.6-6.5 3.6-5.5			0	
	34-56			3.6-5.5			0	
	1 56-70			3.6-5.5	i i		0	
	j	İ	i	İ	i i	i		i
		I	I	I		I		1
36B:			1					1
Mcqueen				3.6-6.5 3.6-5.5			0	
	8-34 34-56			3.6-5.5			0	
	1 56-70			3.6-5.5			0	
		i	i		i i	i		i
40B:		1	I	I		I		1
Luverne	0-7			3.6-5.5			0	
	7-30			3.6-5.5			0	
	30-40 40-80			3.6-5.5 3.6-5.5			0	
	1 40-00			1 3.0-3.3			O	
40D:		i	i	i	i i	i		i
Luverne		i		3.6-5.5			0	i
	7-30			3.6-5.5			0	
	30-40			3.6-5.5			0	
	40-80			3.6-5.5			0	
40E:	1	I I	I I	I I				I I
Luverne	- 0-7			3.6-5.5			0	
	7-30	i	i	3.6-5.5			0	i
	30-40			3.6-5.5			0	i
	40-80			3.6-5.5			0	
417.		1	I					1
41A: Pheba	·I 0−8			 4.5-5.5			0	
1.11CDQ	8-21	1		4.5-5.5			0	
	21-60			4.5-5.5	i i		0	
	i	İ	İ		i i	i	-	i
44A:	1	I	I		I i	İ		1
Benndale	0-5			4.5-5.5			0	
	5-33			4.5-5.5			0	
	33-68 68-73			4.5-5.5 4.5-5.5			0	
	1 00-13		!	1 4.5-5.5	! !		U	!

Map symbol and soil name				reaction	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
	 In	<u></u> meq/100 g	meq/100 g	। рН	Pct	Pct	mmhos/cm	_!
49:		1	I					1
Marietta	0-10			5.6-7.8			0	
	10-46 46-62			5.6-7.8 5.6-7.8			0	
	40 02 		1	1 3.0 7.0		i	O	i
50C:	İ	İ	i	i İ	i i	i		i
Conecuh	0-5			3.6-5.5	0	0	0	1 0
	5-9			3.6-5.5		0	0	1 0
	9-50 50-63			3.6-5.5	0 1	0	0	0 0
	30-63 			 	1 0 1	0 1		1 0
50E:	' 	i	i	i I	i i	i		i
Conecuh	0-5			3.6-5.5		0	0	0
	5-9			3.6-5.5		0	0	1 0
	9-50			3.6-5.5		0	0	1 0
	50-63				0	0		0
52C:	! 	i	i	! 				
Oktibbeha	0-4	i	i	4.5-6.5	i i		0	i
	4-41			4.5-6.5			0	
	41-70			6.6-8.4			0	
52E:						ļ		
Oktibbeha	I 0-4			 4.5-6.5			0	
ONCIDE CHA	4-41			4.5-6.5			0	
	41-70		i	6.6-8.4	i i	i	0	i
		1	I	I		1		1
52F:							0	Į.
Oktibbeha	0-4 4-41			4.5-6.5 4.5-6.5			0	
	1 41-70			6.6-8.4			0	
	İ	İ	i	İ	i i	i		i
Brantley			5.0-25	4.5-5.5	0	0	0	1 0
	6-35		10-35	1 4.5-6.0	0	0	0	1 0
	35-52 52-72		10-35 5.0-25	4.5-5.5 4.5-5.5	0 1	0	0	0 0
	32 - 72 		1 5.0-25	4.5-5.5	1 0 1	0	U	1 0
53C:	' 	i	i	i I	i i	i		i
Sumter	0-10			6.6-8.4		0	0	1 0
	10-21			7.4-8.4		0	0	1 0
	21-28			7.4-8.4		0	0	0
	28-60							
		i	i	İ	i i	i		i
53F:		1	I	I		1		I
Sumter	0-10			6.6-8.4		0 [0	1 0
	10-21			7.4-8.4		0	0	0
	21-28 28-60			7.4-8.4		I		0
	1 20 00	İ	i	İ		i		i
54B:	I	İ	i	İ	i i	į		i
Okolona	0-8			6.6-8.4			0	
	8-65			6.6-8.4		!	0	
	65-80						0	
54C:	! 		i I	! 				
Okolona	0-8	i	i	6.6-8.4	i i		0	·
	8-65	i	i	6.6-8.4	i i		0	
	65-80						0	
5 6 A •			[
56A: Catalpa	I I 0-6		 	 6.1-8.4			0	
	6-60			6.1-8.4			0	
		1	I				-	

Map symbol and soil name	Depth	exchange capacity	Effective cation exchange capacity	reaction		Gypsum 	Salinity	Sodium adsorp- tion ratio
	 In	meq/100 g	meq/100 g	' рН	 Pct	Pct	mmhos/cm	
56B:		I	I	I		1		
Faunsdale				6.6-8.4			0	
	2-14			6.6-8.4			0	
	14-36			6.6-8.4			0	
	36-49 49-65	,		6.6-8.4 6.6-8.4			0	
	1 49-03			1 0.0-0.4			U	
57C:		İ		i	i	i		i
Sumter	0-10	i	i	6.6-8.4	i i	0 1	0	i o
	10-21	i		7.4-8.4	i i	0 1	0	i O
	21-28			7.4-8.4	i i	0	0	0
	28-60							
			1	I	1 1			I
Oktibbeha				1 4.5-6.5			0	
	4-41	•		4.5-6.5			0	
	41-70			6.6-8.4			0	
57F:	1	I I	1	I I				1
Sumter	0-10			6.6-8.4		0 1	0	1 0
Dameer	1 10-21	1		7.4-8.4		0 1	0	i 0
	21-28		·	7.4-8.4		0 1	0	i 0
	28-60	i	i	·	i i	i		i
			I	I	1 1			
Oktibbeha				4.5-6.5			0	
	4-41			4.5-6.5			0	
	41-70			6.6-8.4			0	
F.0.3				1	!!!			!
58A:	1 0-9			 4.5-6.0			0	
Macon	1 9-24			1 4.5-6.0			0	
	1 24-75			1 4.5-6.0			0	
	1 21 75		i	1.0 0.0	i i		Ü	i
58B:	i	İ	i	i	i i	i		i
Macon	0-9			4.5-6.0	i i		0	
	9-24			4.5-6.0			0	
	24-75			4.5-6.0			0	
			I	I	1 1			
58C:					!!!		0	!
Macon	0-9 1 9-24			4.5-6.0 4.5-6.0			0	
	1 24-75	•		1 4.5-6.0		1	0	
	1 24 75		i i	1 4.5 0.0	; ;	i	V	i
60F:	i	İ	i	i	i i	į		i
Luverne	0-7	i	i	3.6-5.5	i i	j	0	i
	7-30			3.6-5.5			0	
	30-40			3.6-5.5			0	
	40-80			3.6-5.5			0	
Conecuh	0-5			3.6-5.5	0 1	0	0	0
	5-9			3.6-5.5 3.6-5.5	0 1	0	0	0
	9-50 50-63			3.6-5.5	1 0 1	0 1	0	I 0
	1 20-03	 	 	 I	0	0		ı U
	İ	İ	i	i				i
70B:	İ	i	i	i	·	i		i
Lucy	0-24	i	i	5.1-6.0	i i	i	0	·
-	24-35	i	i	4.5-5.5			0	
	35-70			4.5-5.5			0	
		I	I	I	1	I		1
70C:		I	I	I		1		I
Lucy	0-24			5.1-6.0			0	
	24-35			1 4.5-5.5		!	0	
	35-70			4.5-5.5	I I		0	1

Map symbol and soil name	Depth 	capacity	Effective cation exchange capacity	reaction		Gypsum 	Salinity	Sodium adsorp- tion ratio
70D:	In	meq/100 g	meq/100 g	 pH	Pct	Pct	mmhos/cm	
Lucy	0-24 24-35 35-70	 	 	5.1-6.0 4.5-5.5 4.5-5.5		 	0 0 0	
33A: Rains	 - 0-12 12-40 40-62 62-79	i	1.0-5.0 2.0-5.0 2.0-7.0 1.0-6.0			0 0 0 0	0 0 0	
99: Gullied Land	 - 0-60		 	 			0	
131A: Malbis	 - 0-7 7-26 26-54 54-71	i	 	4.5-6.0 4.5-5.5 4.5-5.5 4.5-5.5	 	 	0 0 0	
131B: Malbis	 - 0-7 7-26 26-54 54-71	i	 	 4.5-6.0 4.5-5.5 4.5-5.5 4.5-5.5		 	0 0 0	
131C: Malbis	 		 	 4.5-6.0 4.5-5.5 4.5-5.5 4.5-5.5		 	0 0 0	
140A: Savannah	 - 0-11 11-28 28-68	 	 	3.6-5.5 3.6-5.5 3.6-5.5		 	0 0 0	
140B: Savannah	 - 0-11 11-28 28-68	 	 	 3.6-5.5 3.6-5.5 3.6-5.5		 	0 0 0	
152A: Vaiden	 - 0-4 4-26 26-80		 	 4.5-6.5 4.5-6.0 4.5-7.8	i i	 	0 0 0	
152B: Vaiden	 - 0-4 4-26 26-80	 	 	 4.5-6.5 4.5-6.0 4.5-7.8		 	0 0 0	
155: Leeper	 - 0-8 8-50	 	 	5.6-8.4 5.6-8.4		 	0	
L60F: Lucy	 - 0-24 24-35 35-70	i	 	 5.1-6.0 4.5-5.5 4.5-5.5		 	0 0 0	
Luverne	 - 0-7 7-30 30-40 40-80		 	 3.6-5.5 3.6-5.5 3.6-5.5 3.6-5.5		 	0 0 0	

* Lowndes County, Alabama

Map symbol and soil name	 Depth 	 Cation exchange capacity 		 Soil reaction 	Calcium		Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	i
171A:	 	[[I
Ocilla	0-28		1.0-3.0	4.5-5.5	1 0 1	0	0	1 0
	28-59	i		4.5-5.5	i 0 i	0	0	i 0
	59-67	i	3.0-7.0	4.5-5.5	0 1	0	0	0
236A:		I	I					Ţ
Lenoir	I 0-8		 	I I 3.6-5.5			0	1
renort	I 8-75			3.6-5.5			0	
	l 0-75	1	I	1 3.0-3.3				
260:	! 	i	 	i I				
Typic Udorthents	0-80	i	5.0-20	3.6-5.5	i 0 i	0	0	0
		1	I		1 1			1
485A:			1		1 1			
Mashulaville				4.5-5.5			0	
	5-26			4.5-5.5			0	
	5-26			4.5-5.5			0	
	26-62			4.5-5.5			0	
520C:								
Kipling	I 0-3		l ===	I I 3.6-6.0			0	
Kipiiiig	I 3-62			3.6-8.4			0	
	1 62-72		 	5.1-8.4			0	
	02 72	i	İ	0.1 0.1	i i			
520D:		i	İ	i İ	i i			i
Kipling	0-3			3.6-6.0			0	
	3-62			3.6-8.4			0	
	62-72			5.1-8.4			0	
		I	1			l		
	l		l		.		l	_

 $\begin{array}{c} \hbox{FOOTNOTES: *An official soil survey project has not been conducted for Lowndes County.} \\ \hbox{This table contains preliminary information.} \end{array}$